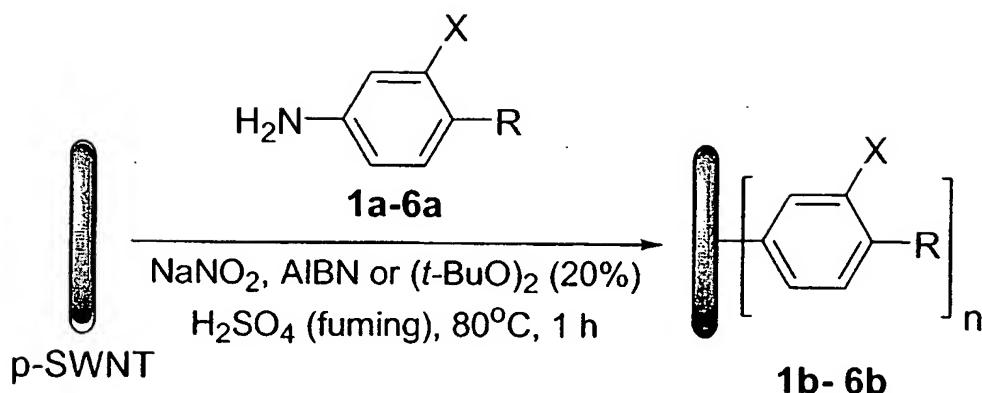


Scheme 1



**1a.** R = H, X = H to **1b.** R = SO<sub>3</sub>H, X = H

**2a.** R = NO<sub>2</sub>, X = H to **2b.** R = NO<sub>2</sub>, X = SO<sub>3</sub>H

**3a.** R = Cl, X = H to **3b.** R = Cl, X = SO<sub>3</sub>H

**4a.** R = *t*-butyl, X = H to **4b.** R = *t*-butyl, X = H and SO<sub>3</sub>H (~1:1)<sup>a</sup>

**5a.** R = CH<sub>2</sub>CH<sub>2</sub>OH, X = H to **5b.** R = CH<sub>2</sub>CH<sub>2</sub>OH, X = SO<sub>3</sub>H<sup>b</sup>

**6a.** R = SO<sub>3</sub>H, X = H to **6b.** R = SO<sub>3</sub>H, X = H

Fig. 1

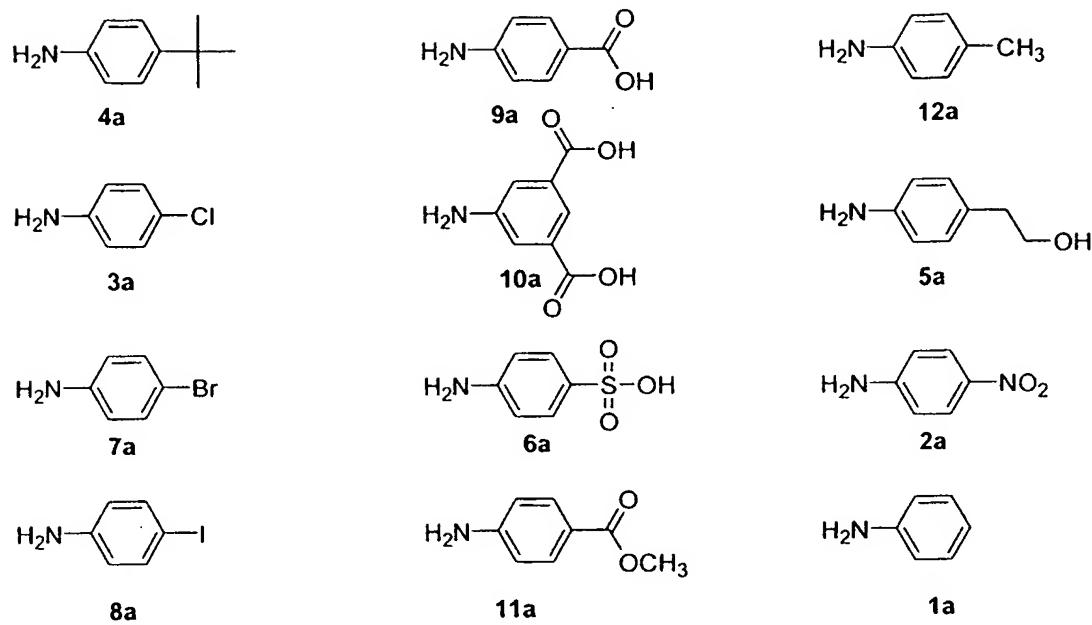


Fig. 2

Scheme 2

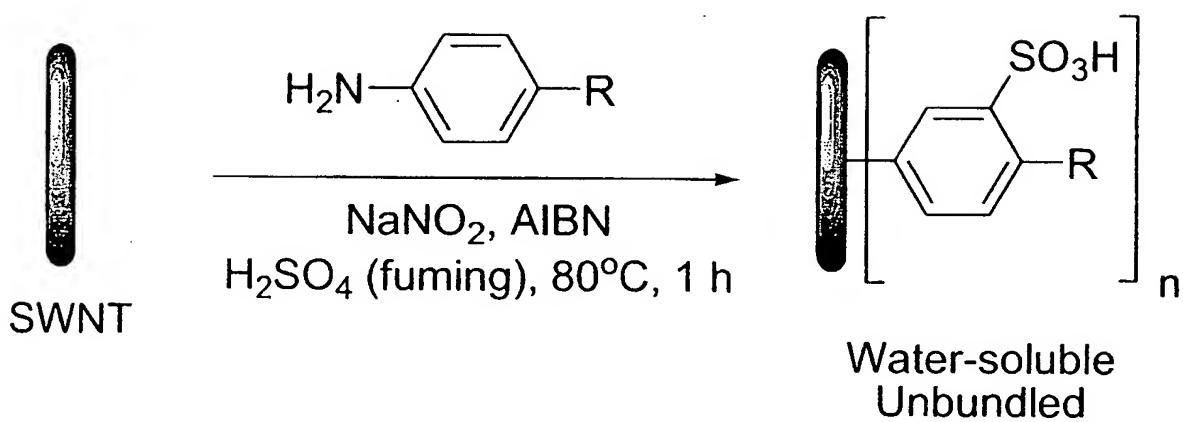


Fig. 3

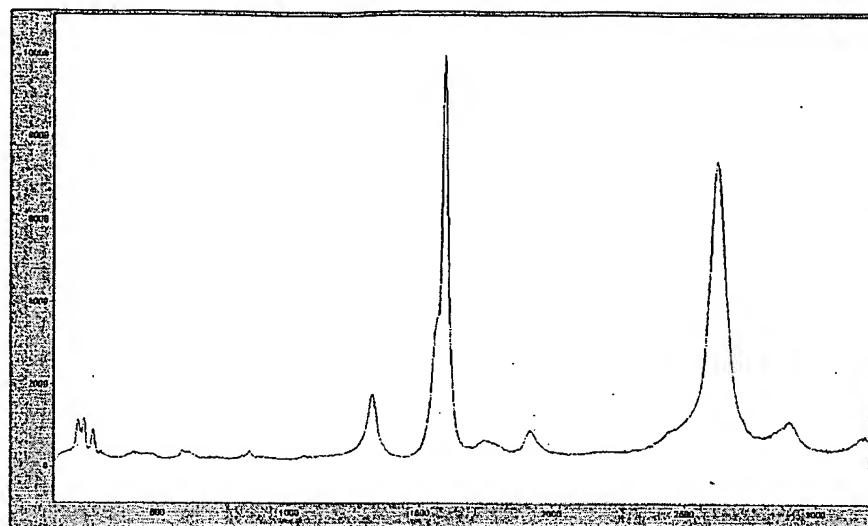


Fig. 4

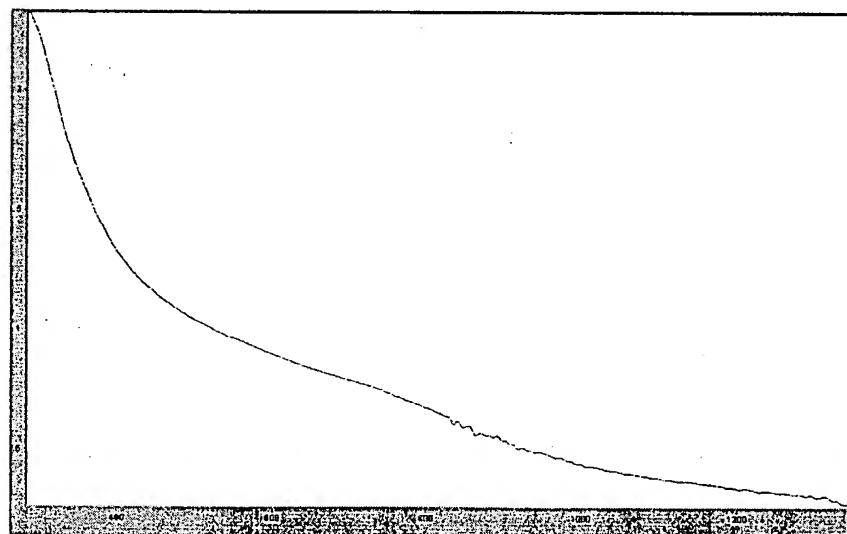


Fig. 5

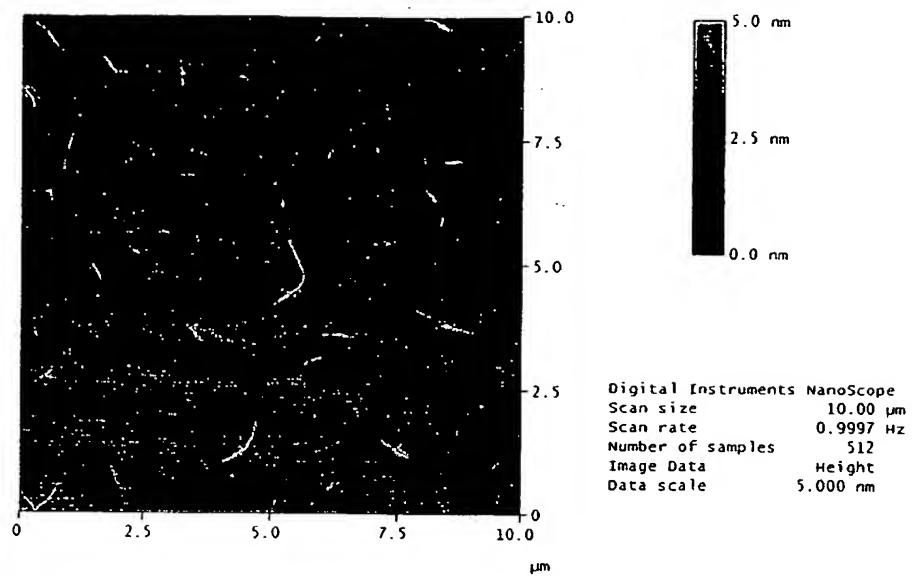


Fig. 6

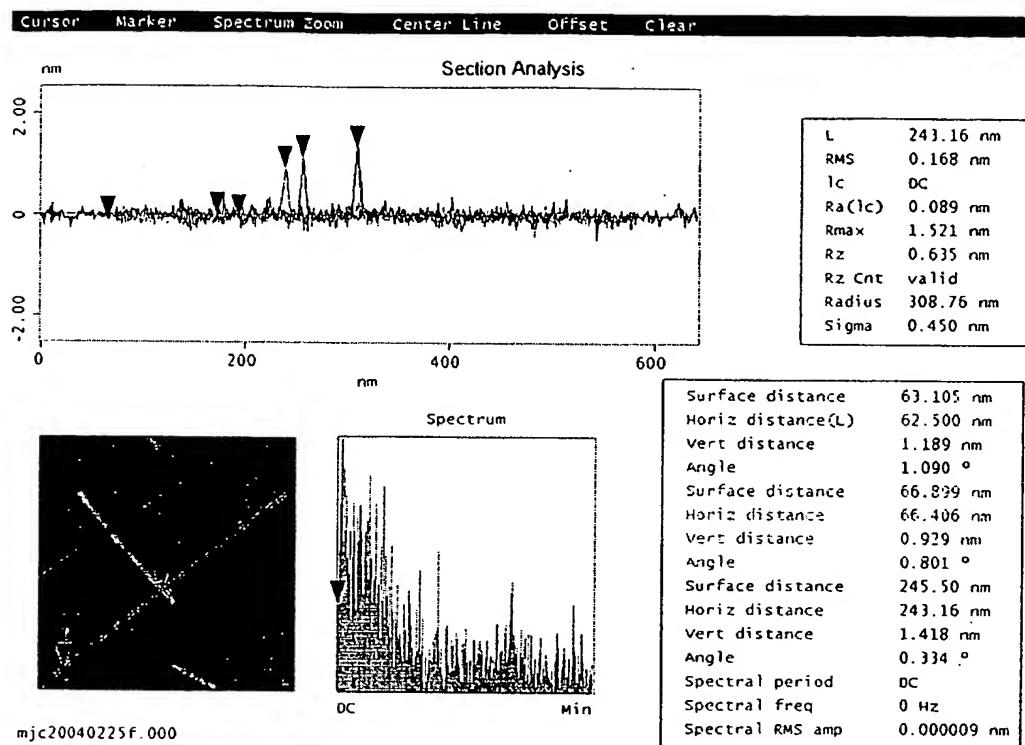


Fig. 7

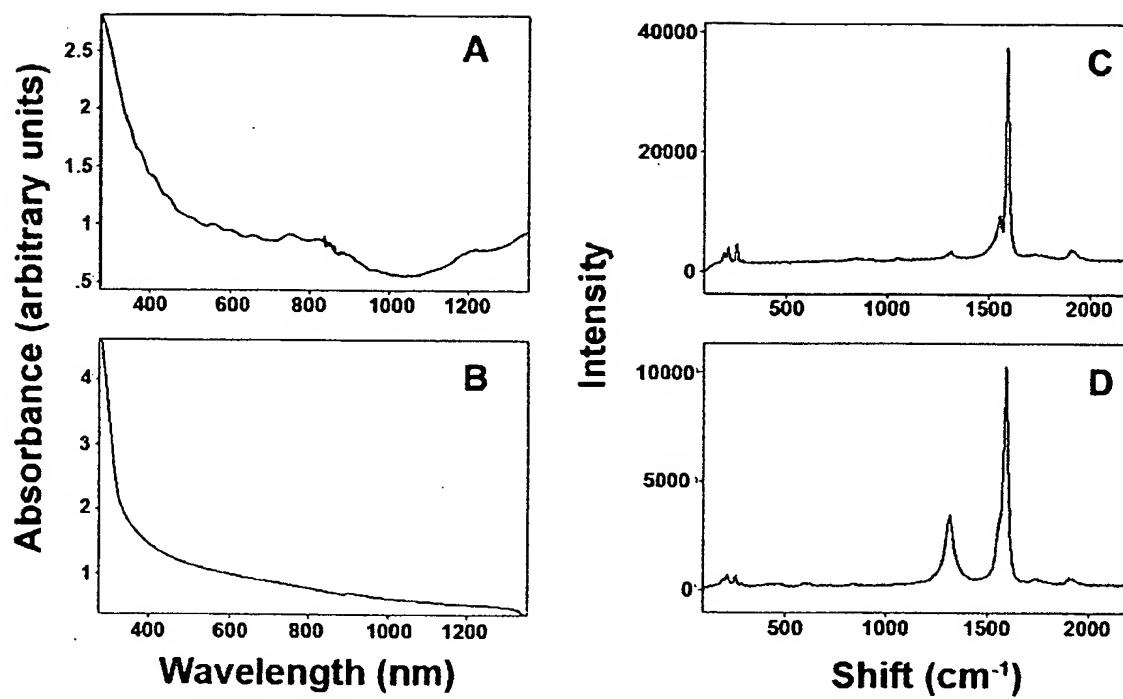


Fig. 8

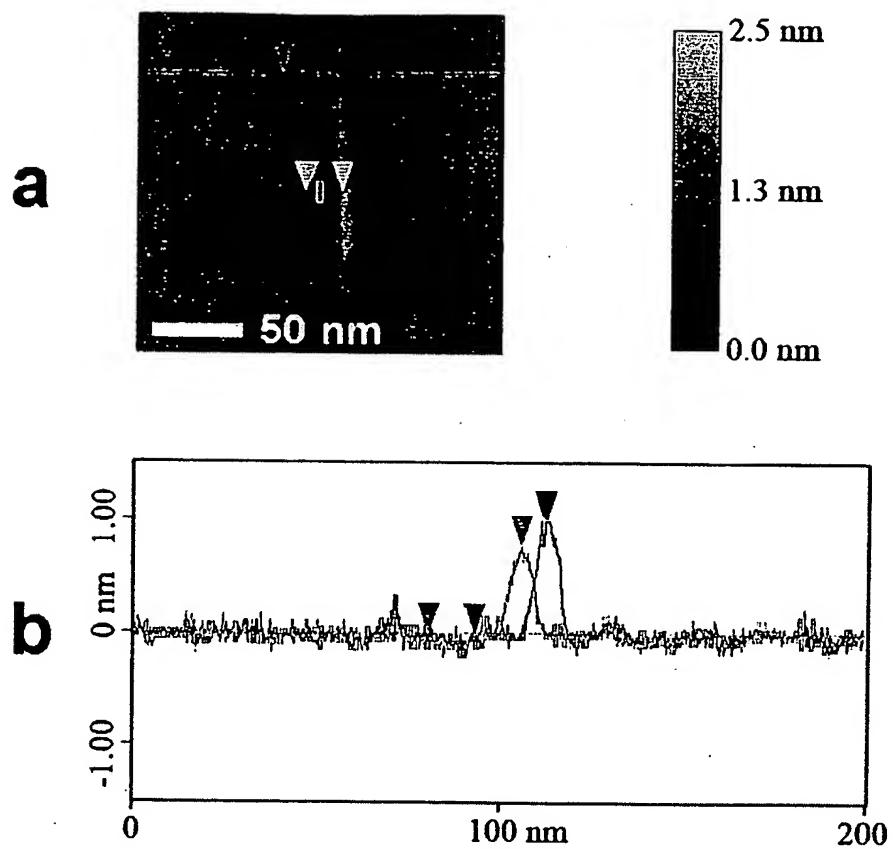


Fig. 9

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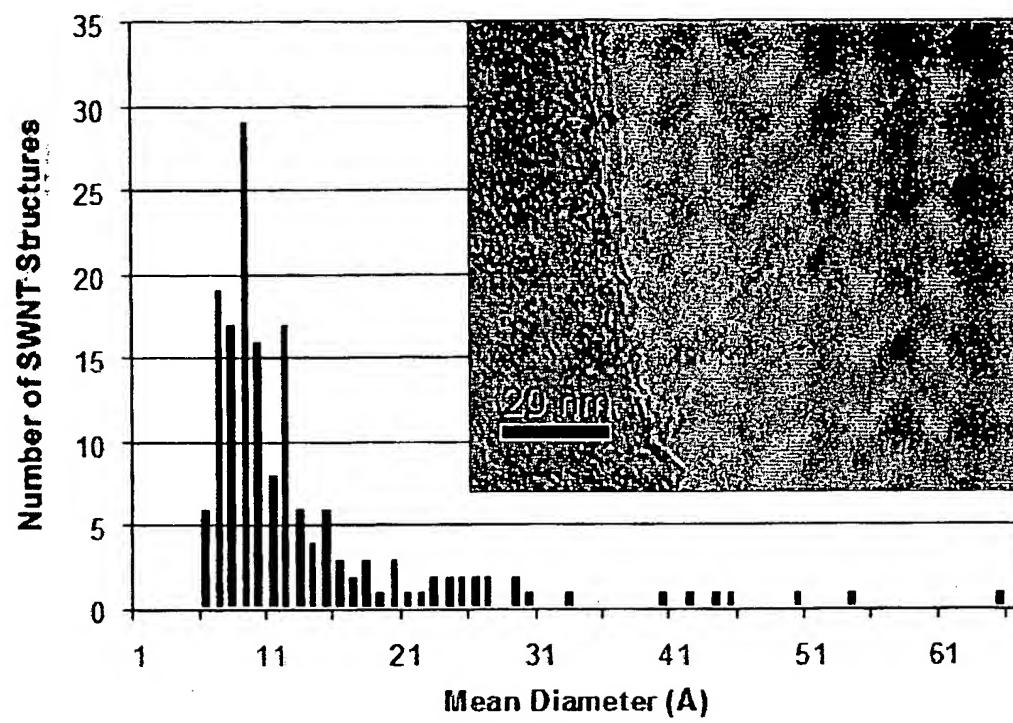


Fig. 10

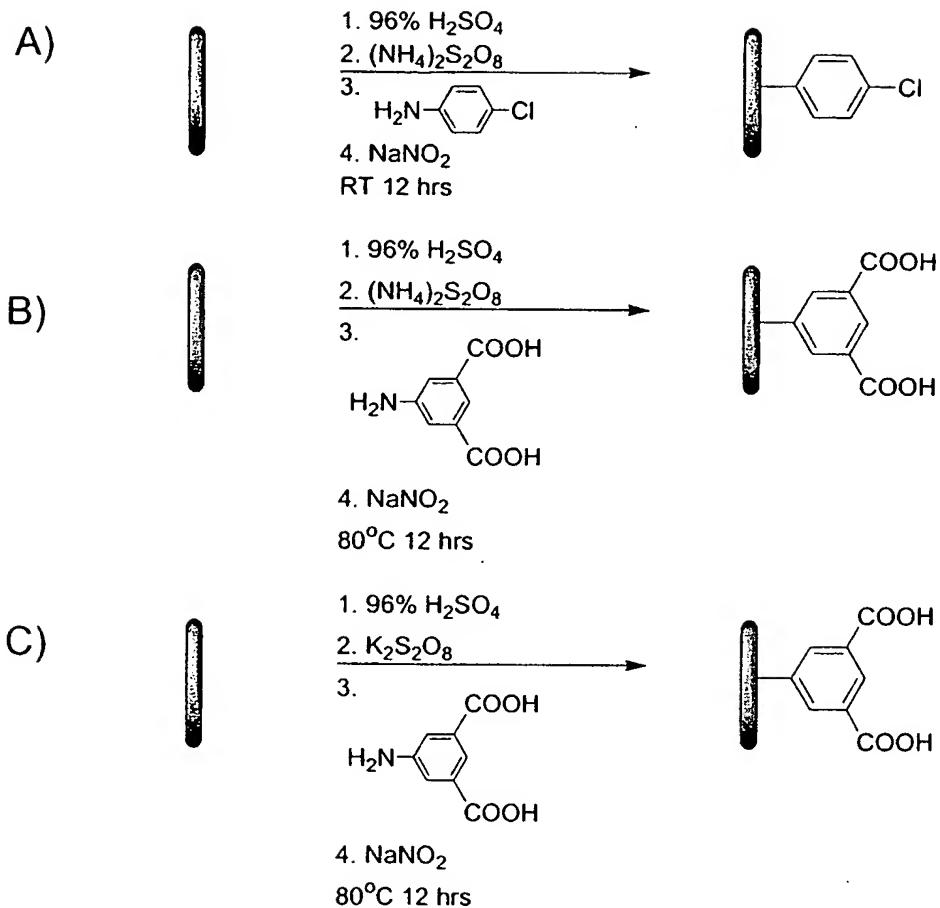
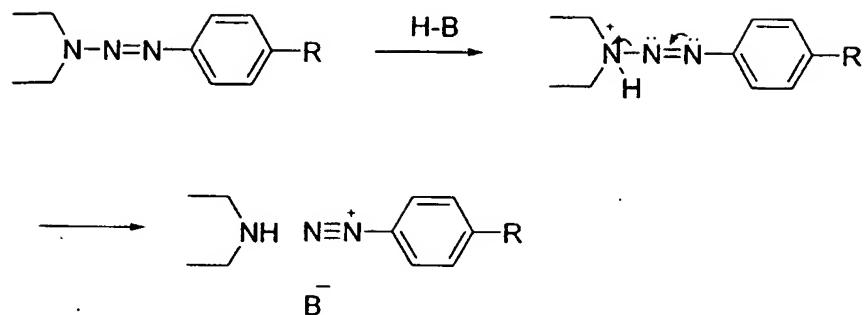


Fig. 11

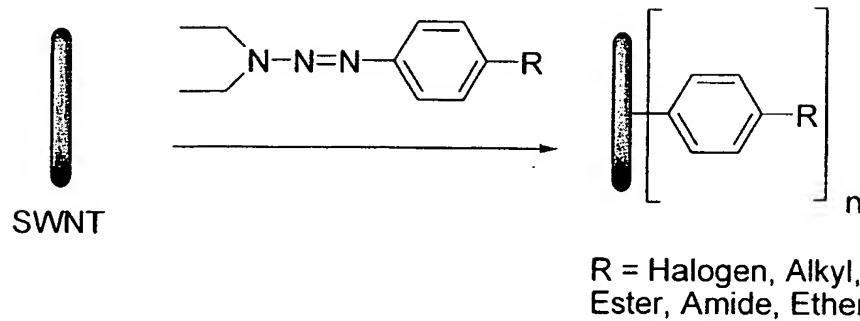
Scheme 3



H-B = Acidic Media

Fig. 12

Scheme 4



R = Halogen, Alkyl, Ester, Amide, Ether

Fig. 13